Amendments to the Claims:

The following listing replaces all prior listing of claims in the application.

Listing of Claims:

CLAIMS

- (Currently amended) <u>A Method method of fabricating a stackeded structure comprising:</u>
- a) selecting a first plate and a second plate such that a portion of at least one of the first and second plates has a structured surface,
- b) producing a sacrificial layer on at least a portion of the structured-surface of the first plate or the structured-surface of the second plate, and
- c) bonding the twe-first and second plates together by bonding the sacrificial layer to a remaining first or second plate,

wherein the structured surface contacts the sacrificial layer.

- (Previously presented) The method according to claim 1 wherein producing the sacrificial layer comprises producing at least a portion of the structured surface of the first plate and at least a portion of the structured surface of the second plate.
- (Previously presented) The method according to claim 1, wherein selecting a first plate and a second plate comprises selecting plates having predetermined physical-chemical properties.
- (Previously presented) The method according to claim 1 wherein selecting comprises selecting the surface having a roughness greater than a predetermined threshold.

- (Previously presented) The method according to claim 4 wherein selecting further comprises selecting the structured surface wherein the predetermined threshold is approximately 0.2 nm root-mean-square (RMS).
- (Previously presented) The method according to claim 1 wherein selecting comprises selecting a least one of the plates that initially includes a surface layer.
- ((Previously presented)) The method according to claim 6, wherein selecting further comprises selecting at least one of the plates wherein the surface layer comprises a monocrystalline surface layer.
- (Previously presented) The method according to claim 6 wherein selecting further comprises selecting at least one of the plates wherein the surface layer comprises silicon.
- (Previously presented) The method according to claim 6 further comprising structuring the surface by forming the surface layer having predetermined properties.
- (Previously presented) The method according to claim 9 where structuring the surface comprises structuring the surface because of a physicalchemical property of that surface layer.
- 11. (Previously presented) The method according to claim 9 wherein forming the surface layer comprises forming a layer of silicon nitride.
- (Previously presented) The method according to claim 1 further comprising smoothing at least one of a free surface of the sacrificial layer or a free surface of at least one of the plates before the bonding.
- 13. (Previously presented) The method according to claim 1 further comprising smoothing the free surface of the sacrificial layer and the free surface of at least one of the plates before the bonding.

- 14. (Previously presented) The method according to claim 1 wherein bonding comprises molecular bonding.
- 15. (Previously presented) The method according to claim 1 wherein bonding comprises bonding with a sacrificial bonding agent.
- 16. (Previously presented) The method according to claim 1 wherein bonding further comprises bonding assisted by at least one of a mechanical means a plasma treatment a thermal treatment.
- (Previously presented) The method according to claim 1 wherein the method further comprises applying a selected atmosphere before bonding.
- (Previously presented) The method according to claim 16 wherein assisting further comprises applying a selected atmosphere during bonding.
- (Previously presented) The method according to claim 16 wherein bonding further comprises exposing the two plates to an open air environment before bonding.
- (Previously presented) The method according to claim 16 wherein bonding further comprises bonding in an open air environment.
- (Previously presented) The method according to claim 1 further comprising thinning at least one of the first or second plates after bonding.
- (Previously presented) The method according to claim 1 wherein a major portion of at least one of the plates comprises a semiconductor material.
- 23. (Previously presented) The method according to claim 22 wherein the major portion comprises silicon.
- 24. (Previously presented) The method according to claim 1 wherein the sacrificial layer comprises silicon oxide.

- 25. (Previously presented) The method according to claim 1 wherein the sacrificial layer comprises a polymer.
- (Previously presented) A stackeded structure fabricated by a method according to claim 1.
- 27. (Currently amended) A stackeded structure comprising a sacrificial layer between a first substrate and a second substrate wherein at least a portion of at least one of the first or second substrates comprises a structured surface, wherein the structured surface comprises a surface having a roughness greater than a predetermined threshold.
- (Previously presented) A stackeded structure according to claim 27 wherein the structured surface comprises a surface having predetermined physical-chemical properties.
 - 29. (Cancelled)
- 30. (Previously presented) A stackeded structure according to claim 29 wherein the predetermined threshold is approximately 0.2 nm.
- (Previously presented) A stackeded structure according to claim 27
 wherein at least one of the first or second substrates has a surface layer.
- (Previously presented) A stackeded structure according to claim 31
 wherein the surface layer comprises a monocrystalline surface layer.
- 33. (Previously presented) A stackeded structure according to claim 31 wherein the surface layer comprises silicon.
- (Previously presented) A stackeded structure according to claim 31 wherein the surface layer by comprises a material having predetermined physical-chemical properties.

- (Previously presented) A stackeded structure according to claim 34 wherein the surface layer comprises silicon nitride.
- (Previously presented) A stackeded structure according to claim 27 wherein a major portion of at least one of the first or second substrates comprises a semiconductor material.
- (Previously presented) A stackeded structure according to claim 36 wherein the major portion comprises silicon.
- 38. (Previously presented) A stackeded structure according to claim 27 wherein the sacrificial layer comprises silicon oxide.
- (Previously presented) A stackeded structure according to claim 27 wherein the sacrificial layer comprises a polymer.
- (Previously presented) A stackeded structure according to claim 27
 wherein at least one of the first or second substrates comprises a thin layer.
- 41. (New) (Previously presented) The method according to claim 1 further comprising producing a supplemental sacrificial layer on the remaining first or second plate.